

# **Journal of Nannoplankton Research**

## **INA16 abstracts**

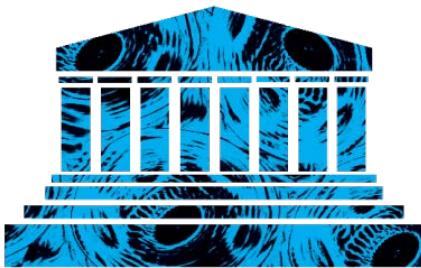
### **Athens, Greece**

**volume 37 | special issue | september 2017**



**International  
Nannoplankton  
Association**





16<sup>th</sup> International *NANNOΠΛΑΓΚΤΟΝ*  
Association Meeting  
Athens, Greece  
September 24-28, 2017

## Diamond level



## Gold level



## Silver level



## With the kind support of:



# **INA16 Athens, Greece 2017**

## Convenors | Organizing Committee & Members

### **Convenors**

#### **MARIA V. TRIANTAPHYLLOU**

National and Kapodistrian University of Athens  
(NKUA)

#### **JEREMY R. YOUNG**

University College London (UCL)

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Ministry of Environment, Energy and Climate  
Change

### **Special thanks are due to**

**Dr. LAUREL BYBELL** for editing all submitted abstracts for the JNR abstract issue

**Assoc. Prof. IOANNIS PAPANIKOLAOU** (Agricultural University of Athens)  
for the geoenvironmental guiding during the pre-Conference fieldtrip to Corinth Canal

**Professor Emeritus DIMITRIOS PAPANIKOLAOU** (NKUA) and **Assist. Prof. PARASKEVI NOMIKOU**  
(NKUA) for the geoenvironmental guiding during the post-Conference fieldtrip to Santorini Island

**ODYSSEAS ARCHONTIKIS** for constructing and editing the INA16 Conference Website

### **Student and Staff Volunteers**

NKUA (PhDs): Maria Athanasiou

NKUA (MScs): Boris-Theofanis Karatsolis, Alexandra Ravani, Georgios Vasiliou, Stavroula Giannakopoulou

NKUA (undergraduates): Zois Arنopoulos, Teodora Blagoeva, Maria-Sofia Kapiri, Alexandra Koltiri, Konstantinos Miaritis, Kostas Panagiotaropoulos, Stelios Potamousis, Dimitris Prokos, Angelina Temponera, Kleoniki Theodoridou, Vasilis Tsigenopoulos

Aristotle University of the Thessaloniki (staff): Olga Koukousioura

Aristotle University of the Thessaloniki (undergraduates): Vasiliki Grigoria Dimou, Ioannis Michailidis, Pierros Patoucheas

Harokopion University of Athens: Anna Katsigera

# **INA16 Athens, Greece 2017**

## Scientific Committee

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**JEAN-SELF-TRAIL**  
U.S. Geological Survey



## **24-28 SEPTEMBER 2017**

### **16<sup>TH</sup> INTERNATIONAL NANNOPLANKTON ASSOCIATION MEETING ATHENS, GREECE**

INA16 will be a perfectly enjoyable experience and a unique opportunity for all nanno-folks to exchange experiences, learn the state-of-the art and develop professional contacts around the globe.

Its main objectives are as follows:

- Nannofossil biostratigraphy - challenges, innovations and developments
- Coccolithophore taxonomy and size variations
- Coccolithophore phylogeny, species-concepts and molecular genetics
- Calcareous nannofossils - indicators of palaeoenvironmental, oceanographic and climatic changes
- Coccolithophore ecology - insights from seasonality and biogeography
- Understanding coccolithophore biocalcification
- Jurassic nannofossil biostratigraphy and paleoecology
- Ecosystem dynamics and applications
- Palaeoceanography of the Indian Ocean and the West Pacific – results from recent IODP cruises

#### **ORGANIZER**

**National and Kapodistrian  
University of Athens, Faculty  
of Geology & Geoenvironment**

#### **VENUE / ACCOMODATION**

**Technical sessions and  
workshops will take place at  
the 5<sup>th</sup> Divani Acropolis Palace  
on Parthenonos str.117 42,  
located at the heart of Athens.**

#### **FIELD TRIPS**

**Pre-Conference Field trip will  
take place in Corinth Canal,  
Mycenae, Nafplion (23/9/2017;  
9:00-19:00). One-day field trip  
by shuttle bus, including  
geological-archaeological-  
touristic tour and wine  
tasting.**

**Geoenvironmental guiding:  
Assoc. Professor Ioannis  
Papanikolaou**

**Post-Conference Field trip will  
take place in Santorini, the  
famous volcanic Island in the  
Aegean Sea (29/9-2/10/2017).**

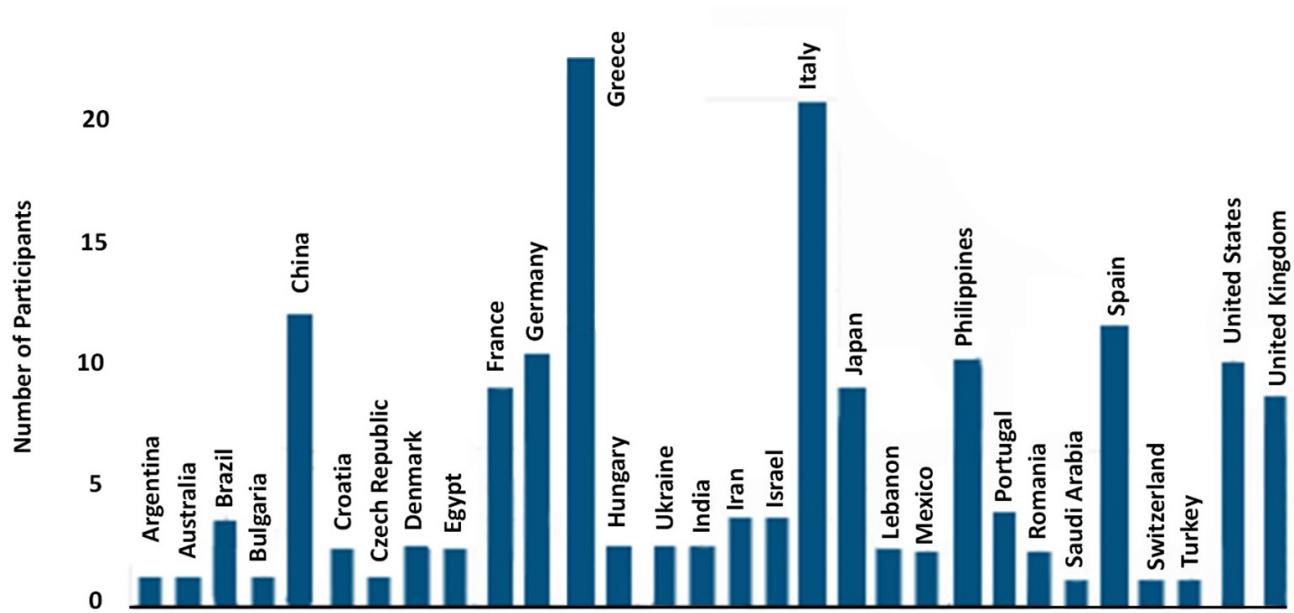
**Geoenvironmental guiding:  
Professor Emeritus Dimitrios  
Papanikolaou  
Assistant Professor Paraskevi  
Nomikou**

#### **INA16 Meeting**

**Email: [ina16hellas@gmail.com](mailto:ina16hellas@gmail.com)  
Website: [www.ina16athens.com](http://www.ina16athens.com)**

We are looking forward to welcoming more than 120 participants (approx. 80 oral and 65 poster presentations).

INA16 will accommodate a nice dispersion of participants all over the globe!



See you all in Athens!

**MARIA TRIANTAPHYLLOU, JEREMY YOUNG**

**INA16 CONVENORS**

**ATHENS 2017**

# INA16 Scientific Programme

## Saturday 23rd September

9:00 am – 7:00 pm

Pre-Conference Fieldtrip (Corinth Canal, Mycenae, Nafplion).

Geoenvironmental guiding:

Assoc. Prof. Ioannis Papanikolaou (Agricultural University of Athens)

Prof. Maria Triantaphyllou (NKUA)

## Sunday 24th September

7:00 pm – 8:30 pm

Ice Breaker Reception/Cocktails. Divani Akropolis lobby

## Monday 25th

8:00 am – 9:00 am

Registration Open/Poster Delivery

9:00 am – 9:30 am

**Opening Ceremony**

Welcome Address

Prof. Fotini Pomoni-Papaioannou Director of Dept. Historical Geology - Paleontology, NKUA

Dr. Dr. Dimitrios Tsagkas, General Director of IGME

Dr. Spyridon Bellas, Ministry of Environment, Energy and Climate Change

Prof. Maria Triantaphyllou - Dr. Jeremy Young, INA16 Convenors

### Session 1- Nannofossil biostratigraphy-challenges, innovations & developments (continued)

Chairs: Isabella Raffi and Eric de Kaenel

9:30 am

**Agnini, Raffi, Westerhold, Röhl**

The role of calcareous nannofossils in age model construction: a further step towards high-precision chronologic frameworks

9:45 am

**Alqudah, Khoury, Salameh, Mutterlose**

An unconventional application of calcareous

nannofossils - reconstructing the timing and the course of an Eocene meteorite impact in central Jordan

10:00 am

**De Kaenel**

Pleistocene calcareous nannofossil biochronology and biozonation

10.15 am

**El Fiki, Tawfik, Ahmed, Afifi**

Application of high-resolution biostratigraphy to differentiate and correlate reservoir units in Raven Field, Nile Delta, Egypt

10:30 am – 11:00 am

**Morning Coffee Break**

### Session 1- Nannofossil biostratigraphy-challenges, innovations & developments (continued)

Chairs: Isabella Raffi and Eric de Kaenel

11:00 am

**Young, Pratiwi, Su**

The small *Reticulofenestra* event/*R. pseudoumbilicus* paracme revisited-new data from IODP Expedition 359

11:15 am

**Jiang, Kuhaneck, Watkins, Jordan, Hoshina**

Latest Early Cretaceous calcareous nannofossils from southern Tibet, China

11:30 am

**Malinverno, Bosio, Gariboldi,**

**Gioncada, Di Celma, Villa, Urbina,**

**Bianucci**

Intergrated biostratigraphy and geochronology of sedimentary successions in the East Pisco Basin that crop out on the western side of the Ica River Valley (Ocuaje, Peru)

11:45 am

**Matias, Gallemi**

Dating paleontological collections that contain

poorly documented specimens

*12:00 pm*

**Singh**

*Micula prinsii*: latest Maastrichtian marker, record from low latitude northeast India, Meghalaya.

*12:15 pm*

**Hassanein, Giraud, Robert, Jaillard, Masrour, Aly, Hammed**

Integrated stratigraphy of the uppermost Barremian-lower Albian in the Essaouira - Agadir Basin (western Morocco) and correlation with northern Tethyan basins

*12:30 pm*

**Triantaphyllou**

A review of Cenozoic calcareous nannofossil biostratigraphic studies in the Hellenic territory (Greece): achievements and limitations

*12:45 pm – 2:00 pm*

**LUNCH**

**Session 2- Coccolithophore taxonomy and size variations**

Chairs: Luc Beaufort and Jeremy Young

*2:00 pm*

**Aubry**

A high rank taxonomic classification of the Cenozoic coccolithophores and their Mesozoic roots

*2:15 pm*

**Beaufort, Gally, Barbarin, Mazur, Bolton**

Regularity in the quaternary variations of Noelarhabdaceae morphology

*2:30 pm*

**Bottini, Faucher**

The effect of mic Cretaceous paleoenvironmental changes on *Biscutum constans* size changes

*2:45 pm*

**Kim, Bown, Gibbs**

Recovery of plankton cell and coccolith size after the Cretaceous - Paleogene mass extinction (IODP

Expedition 3442 Sites 1403 and 1407, North Atlantic)

*3:00 pm*

**Mattioli, Gollain, Bartolini**

Calcareous nannoplankton in a changing paleoworld, a tale of size variations

*3:15 pm*

**Möller, Bornemann, Mütterlose**

Size changes of calcareous nannofossils during the Weissert Event (Early Cretaceous)

*3:30 pm*

**Prista, Narciso, Cachão**

A new morphometric approach to coccolith morphometry: reassessing *Coccolithus pelagicus* s.l. data from the Holocene

*3:45 pm*

**Zhang, Liu, Jin, Zhou, Bolton**

Measuring the sinking characters of coccolith: a refinement of coccolith separation methods

*4:00 pm – 4:30 pm*

**Afternoon Coffee Break**

**Session 2- Coccolithophore taxonomy and size variations (continued)**

Chairs: Luc Beaufort and Jeremy Young

*4:30 pm*

**Varol, Bowman**

Taxonomic revision of selected Tithonian species based on the examination from mobile mounting

*4:45 pm*

**Howe**

The Ultrastructure of the Family Sphenolithaceae

**Session 3- Calcareous nannofossils - indicators of paleoenvironmental, oceanographic and climatic changes**

Chairs: Emma Sheldon and Marie-Pierre Aubry

*5:00 pm*

**Denne, Kita**

Calcareous nannofossils from the late Campanian

Manson impact structure at the eastern edge of the Western Interior Seaway

*5:15 pm*

**Hassanein, Giraud, Jaillard, Robert, Aly, Hammed, Masrour**

Paleoenvironmental conditions during the Aptian-early Albian in the Essaouira - Agadir Basin, western Morocco.

*5:30 pm*

**Püttmann, Linnert, Dölling, Mütterlose**

Calcareous nannofossils from Late Cretaceous (Cenomanian - Campanian) shallow-marine deposits in northwest Germany - a record for coastal dynamics

*5:45 pm*

**Sheldon, Dybkjær, Ineson**

Timing and paleoceanographic implications of the North Sea 'base Cretaceous Unconformity' event at its correlative conformity: a multi - disciplinary core study, North Jens-1 well, Danish Central Graben

based on calcareous nannofossils, granulometry, and sediment geochemistry

*9:30 am*

**Martínez-Sánchez, Flores, Sierro, Alonso-García**

Productivity and North Atlantic subpolar dynamics at orbital-to-millennial scales during middle Pleistocene Marine Isotope Stages 19–11

*9:45 am*

**Saavedra-Pellitero, Baumann, Lamy, Köhler, Ullermann**

Coccolithophore productivity during MIS 11 in the Pacific sector of the Southern Ocean and its impact on the carbon cycle

*10:00 am*

**Sagular, Yavuzlar**

Calcareous nannofossils from the Manavgat Sub-basin, SW Turkey, reveal the age of lower Pleistocene paleotsunami deposits that overlie a late Pliocene erosional surface

*10:15 am*

**Kulhanek, Castro, Lakin, Morelos, Prebble, Bostock, Cortese**

Early Holocene calcareous nannofossil assemblages as indicators of past sea surface temperature and nutrient conditions in the New Zealand region

*10:30 am – 11:00 am*

**Morning Coffee Break**

## Tuesday 26th September

### Session 3- Calcareous nannofossils - indicators of paleoenvironmental, oceanographic and climatic changes (continued)

Chairs: Elisabetta Erba and Mario Cachao

*8:45 am*

**Athanasiou, Bouloubassi, Gogou, Klein, Dimiza, Parinos, Skampa, Triantaphyllou**

Paleoclimatic conditions during the "warm Pliocene" interval (~4.1–3.2 Ma) in the eastern Mediterranean (Cyprus): a combined alkenone and calcareous nannofossil study

*9:00 am*

**Lupi, Bordiga, Sacchi, Cobianchi**

Middle Pleistocene Transition mechanisms and calcareous nannofossils at ODP Site 1209 (NW Pacific Ocean)

*9:15 am*

**Marquez, Peleo-Alampay, Liu**

Late Holocene events in the Sibuyan Sea, Philippines,

### Session 3- Calcareous nannofossils - indicators of paleoenvironmental, oceanographic and climatic changes (continued)

Chairs: Jose-Abel Flores and Karl-Heinz Baumann

*11:00 am*

**Belhajtahar, Mattioli, Soussi, Chaabane**

Calcareous nannofossil assemblages across the Paleocene-Eocene transition in the Kharouba section, northern Tunisia

*11:15 am*

**Chakraborty, Bown, Ghosh, Young**

Calcareous nannofossils from the Miocene of the Andaman and Nicobar Islands, India: biostratigraphic and paleoecological perspectives

*11:30 am*

**Chira, Aroldi**

Oligocene - lower Miocene calcareous nannofossils and sedimentology of the Transcarpathian Basin in Romania

*11:45 am*

**Galović**

Coccolithophores and environmental changes during mid-Miocene major events - responses and records at the marginal Paratethys

*12:00 pm*

**Nyerges, Kocsis, Pálfy**

Changes in calcareous nannoplankton assemblages across the Eocene - Oligocene transition in the Hungarian Paleogene Basin (Central Paratethys)

*12:15 pm*

**Raffi, Liebrand, Fraguas, Hilgen, Wilson, Batenburg, Beddow, Crocker, Huck, Lourens, Bohaty, Sabia**

Recurrent *Braarudosphaera* acmes in the mid-Oligocene subtropical South Atlantic Ocean linked to astronomical forcing of the hydrological cycle

*12:30 pm*

**Chin, Watkins**

Investigating the late Campanian - Maastrichtian cooling trend using clumped isotopes on the coccolith fraction of sediments from the Boreal Chalk Sea and Shatsky Rise

*12:45 pm – 2:00 pm*

**LUNCH**

**Session 4- Coccolithophore phylogeny, species-concepts and molecular genetics**

Chairs: Jeremy Young and Kyoko Hagino

*2:00 pm*

**Aubry**

The haploid coccolithophore

*2:15 pm*

**Bendif, Laurent, Probert, von Dassow, Cros, Young, Jeanthon, Garczareck, de Vargas**

Microdiversity of cosmopolitan coccolithophores

through an oligotrophic gradient in the Mediterranean Sea

*2:30 pm*

**Bendif, Probert, Young, de Vargas**

Puzzling speciation and adaptive patterns in the *Gephyrocapsa* complex

*2:45 pm*

**Cappelli, Agnini, Bown, Yamamoto**

Middle Eocene evolutionary lineages from the North Atlantic Ocean, IODP Site U1410: biostratigraphic and paleoecological constraints

*3:00 pm*

**Ghosh, Chakraborty, Bown, Young**

Early Zanclean nannofossils from Car Nicobar Island, northern Indian Ocean, with remarks on the evolutionary significance of the genus *Ceratolithus*

*3:15 pm*

**Hagino, Bendif, Probert, Young**

Molecular phylogenetic position of *Reticulofenestra sessilis*

*3:30 pm*

**Jin, Liu, Zhang**

*Gephyrocapsa* physiology over the past 400 ka

*3:45 pm – 5:30 pm*

**Afternoon Coffee Break | Poster Authors in Attendance**

**Wednesday 27th September**

**Session 5- Coccolithophore ecology - insights from seasonality and biogeography**

Chairs: Simonetta Monechi and Maria Triantaphyllou

*8:45 am*

**Skampa, Triantaphyllou, Dimiza, Malinverno,**

**Archontikis, Parinos, Stavrakakis, Gogou**

Coccolithophore export fluxes in the NE Mediterranean as revealed from different sediment trap records

*9:00 am*

**Archontikis, Dimiza, Malinverno, Triantaphyllou**  
Coccolithophore biogeography in the eastern Mediterranean: surface sediment evidence

9:15 am

**Fonseca, Cachão**

The Cretaceous paleobiogeography of *Braarudosphaera bigelowii*

9:30 am

**Galović**

Coccolithophore ecology - insights from seasonality and biogeography on local and global scales

9:45 am

**Karatsolis, Triantaphyllou, Dimiza, Malinverno, Archontikis, Psarra**

Tracing NE Aegean water masses using phytoplankton (coccolithophore and silicoflagellate) assemblages

10:00 am

**Meier, Kinkel**

Seasonal succession of coccolithophores during a long-term monitoring in the Kiel Fjord (SW Baltic Sea)

10:15 am

**Álvarez, Álvarez, Francés, Díz, Grimalt, Casado**

Rapid dynamics changes in NE Atlantic transitional surface waters during the last 57 ka

10:30 am – 11:00 am

**Morning Coffee Break**

**Session 5- Coccolithophore ecology – insights from seasonality and biogeography (continued)**

Chairs: Simonetta Monechi and Maria Triantaphyllou

11:00 am

**Patil, Mohan, Gazi, Shetye, Jafar**

Is *Emiliania huxleyi* expanding its presence in polar waters? Evidences from multiyear observations

11:15 am

**Rigual-Hernández, Wilks, Trull, Sierra, Fuertes, Bray, Armand, Flores**

Coccolithophore and diatom distribution across the

main pelagic zonal systems of the Southern Ocean

11:30 am

**Tangunan, Baumann, Pätzold, Henrich, Kucera, De Pol-Holz, Groeneveld**

Evidence of tropical Pacific forcing in the western Indian Ocean coccolithophore productivity record

## Session 6- Understanding coccolithophore biocalcification

Chairs: Gerald Langer and Luc Beaufort

11:45 pm

**Balistieri, Ziveri, Mortyn, Fornaciari, Agnini**

Coccolith carbonate export dynamics at ODP Site 1089 (Southern Ocean) during the last deglaciation

12:00 pm

**Faucher, Erba**

A look into coccolith sizes and shapes: the morphological responses of coccolithophore algae calcification to trace metal concentrations

12:15 pm

**Gal, Faivre, Scheffel**

The roles of coccolith organic components in calcite crystallization

12:30 pm – 2:00 pm

**LUNCH**

## Session 6- Understanding coccolithophore biocalcification (continued)

Chairs: Gerald Langer and Luc Beaufort

2:00 pm

**Intxauspe-Zubiaurre, Flores, Payros**

Dissolution and calcification patterns in calcareous nannofossils during the middle Eocene C21r-H6 hyperthermal event (~47.4 Ma) at the Gorrondatxe section (Bay of Biscay, western Pyrenees)

2:15 pm

**Langer, Probert, Brownlee, Walker, Wheeler**

The silicon requirement of coccolithophore calcification

2:30 pm

**Su, Liu, Beaufort**

Changes in coccolith weight in the northern South China Sea and their environmental controls

2:45 pm

**Suchéras-Marx, Marfil, Beaufort**

Pelagic carbonate production across the Cretaceous-Paleogene boundary

3:00 pm

**Walker, Taylor, Langer, Tyrrell, Brownlee,**

**Wheeler**

Investigating the role of calcification in Coccolithophores

3:15 pm

**Perrin, Probert, Langer, Beaufort, Aloisi**

Combining physiological modeling at the cellular scale and in situ biogeochemical data to investigate the deep niche of *Emiliania huxleyi* in the South Pacific Gyre

3:30 pm – 5:30 pm

Afternoon Coffee Break | Poster Authors in Attendance

based on calcareous nannofossils data

9:30 am

**Stoykova, Grabowski, Lakova**

Tithonian - early Berriasian calcareous nannofossil events in Barlya, Bulgaria, and Lókút, Hungary: calibration with magnetostratigraphy and calpionellid biostratigraphy

9:45 am

**Thibault, Peti**

Abundance and size changes in *Schizosphaerella* – relation to climatic and paleoenvironmental change across the Early Jurassic of the Paris Basin

10:00 am

**Visentin, Reolon, Faucher, Erba**

Calcareous nannofossil biostratigraphy and paleoceanography across the Toarcian Oceanic Anoxic Event cored at Colle di Sogno (Lombardy Basin, northern Italy)

10:15 am

**Discussion**

10:30 am – 11:00 am

Morning Coffee Break

**Thursday 28th September**

**Workshop: Jurassic nannofossil biostratigraphy and paleoecology**

Organizer: Emmanuela Mattioli

8:45 am

**Ferreira, Mattioli**

Numerical tactics to disentangle Lower-Middle Jurassic nannoplankton biogeographic relationships

9:00 am

**Fraguas, Comas-Rengifo, Gómez, Goy**

Warming-driven nannofossil crisis in the early Toarcian of northern Spain

9:15 am

**Menini, Mattioli, Suan, Pittet**

The Pliensbachian-Toarcian boundary event (Early Jurassic): New paleoenvironmental interpretations

**Session 7- Ecosystem dynamics and applications**

Chairs: Athena Economou-Amilli and Richard Jordan

11:00 pm

**Chantzistrountsiou, Lamprinou, Gratsia, Evrigeni, Tzovenis, Economou-Amilli**

The microalgae strain bank ATHU-AL at the University of Athens (NKUA)

11:15 pm

**Kalaroni, Tsiaras, Petihakis, Economou-Amilli, Triantafyllou**

Modeling Mediterranean pelagic phytoplankton

11:30 pm

**Jordan, Fujita**

Phytoplankton biogeography in the western Pacific and Indian Ocean

11:45 pm

**Malinverno**

Extant *Stephanocha speculum* from the Ross Sea:  
abundance, morphologies, and double skeletons

*12:00 pm*

**Kemandji, Kemandji, Touhami**

Middle Devonian miospore assemblage biozones in  
Sahara synclines (Algeria): geological implication  
and evidence for stages boundaries

*12:15 pm*

**Nomikou**

A seafloor observatory for the Kolumbo volcano: an  
informed modelling system

*12:30 pm*

**Young, Bown**

Nannotax: progress and prospects

*12:45 pm – 2:00 pm*

**LUNCH**

*2:00 pm – 4:00 pm*

**INA BUSINESS MEETING | CONFERENCE  
CLOSING**

*7:00 pm*

**CONFERENCE DINNER | Limni Vouliagmenis**

**Friday 29th September – Monday  
2nd October**

*7:30 am*

Post-Conference Fieldtrip (Santorini Island, Aegean  
Sea)

Geoenvironmental guiding:

Prof. Emeritus Dimitrios Papanikolaou (NKUA)

Assist. Prof. Paraskevi Nomikou (NKUA)

## POSTER PRESENTATIONS

**Abe, Jordan**

Late Eocene silicoflagellates from Oamaru, New Zealand

**Albasrawi, Watkins**

Early Miocene quantitative calcareous nannofossil biostratigraphy from the tropical Atlantic

**Alqudah, Hakimi, Abdullah, Hussein, Masri, Mutterlose**

Calcareous nannofossil biostratigraphy of the Cenomanian - Turonian interval (Cretaceous) from Jordan

**Al Rawahi**

Upper Cretaceous calcareous nannofossil biostratigraphy and paleoceanography from Tethyan sediments of Oman

**Álvarez, Gutiérrez-Ramírez, Gaviño-Rodríguez, Carbajal-Pérez**

Theoretical hydrodynamic efficiency of coccoliths and coccolithophores

**Álvarez, Vega-Corza, Bárcena, Quijano-Scheggia**

Effect of dense shelf water cascading over planktic fluxes in the Gulf of Lions (NW Mediterranean)

**Arapov, Skejić, Bužančić, Bakrač, Ninčević**

Seasonal distribution of coccolithophores in the open waters of the central Adriatic Sea

**Athanasiou, Triantaphyllou, Dimiza, Gogou, Tsolakis**

Lower-middle Miocene sapropelic layers (Nicosia, Cyprus) and paleoceanographic implications

**Ausín, Flores, Zúñiga, Cavaleiro, Granda, Villacíeros-Robineau, Alonso-Pérez, Froján, Arbones, Santos, Castro, Abrantes, Eglinton**

Spatial and temporal variability in coccolithophore abundance and distribution in the NW Iberian Margin

**Baumann, Donner, Köbrich, Fischer**

Calcareous plankton fluxes in the upwelling area off NW Africa (Cape Blanc) - dynamics and trends from selected sediment trap series in the past 28 years

**Baumann, Vollmar**

Coccolithophore response to changes in surface water conditions in the North Atlantic (ODP Site 984) during Marine Isotope Stage 5

**Bazzicalupo, Maiorano, Girone, Marino, Nebout-Combierieu, Incarbona**

Coccolithophore behavior during short-term climate fluctuations over the last deglaciation: evidence from the Alboran Sea, western Mediterranean

**Bottini, Erba, Artoni**

Calcareous nannofossils at the Triassic-Jurassic boundary: stratigraphic and paleoceanographic characterizations

**Callejo, Fernando**

Calcareous nannofossils from the proposed Kapurpurawan National Geological Monument, Ilocos Norte (northwestern Philippines)

**Cappelli, Galeotti, Moretti, Lanci, Monechi**

The evolution of fasciculiths in the Danian Bottaccione section (Italy): a glance at biotic and geochemical evolution

**Castro, Fernando**

Calcareous nannofossil biostratigraphy of the late Oligocene to early Miocene Lubuagan Formation (western Cagayan Valley Basin), Kalinga Province, Philippines

**Chira, Negru, Balog, Bedelean**

Middle Miocene paleoenvironments in the Strei Basin (Romania): calcareous nannofossils, micro- and macrofauna, and sedimentology

**Chiyonobu, Sato**

Cretaceous calcareous nannofossil biostratigraphy off the coast of northeastern Honshu, Japan

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